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S O C I E T Y
FOR THE
ENCOURAGEMENT
OF
Arts, Manufactures, and Commerce.

P R E M I U M S
FOR THE SESSIONS
1843—1844,
1844—1845.

LONDON :
PRINTED BY ORDER OF THE SOCIETY,
FOR GRATUITOUS DISTRIBUTION;
AND MAY BE HAD, BY APPLICATION, AT THEIR HOUSE IN THE ADELPHI.

PRINTED BY MOTES AND BARCLAY, CASTLE STREET, LEICESTER SQUARE.

1843.

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HIS ROYAL HIGHNESS PRINCE ALBERT, K.G. F.R.S.

&c. &c.

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ADVERTISEMENT TO THE PUBLIC.

THE chief object of the Society is to promote the Arts, Manufactures, and Commerce of this Kingdom, by giving honorary or pecuniary Rewards, as may be best adapted to the case, for the Communication to the Society, and through the Society to the Public, of all such useful Inventions, Discoveries, and Improvements (whether specified in these Premiums or not), as tend to that purpose: in pursuance of this plan, the Society have already expended upwards of a *Hundred Thousand Pounds*, derived from voluntary Subscriptions and Legacies.

The Meetings of the Society are held every Wednesday, at eight o'clock in the evening, from the first Wednesday in November to the second Wednesday in June. The Committees meet on other evenings in the week during the session, for the purpose of taking into consideration the subjects referred to them by the Society. A person desirous of becoming a Member of the Society may be proposed according to the following form, which must be signed by three Members of the Society, and delivered in to the Secretary:—

A. B. [*trade, profession, or designation of the Candidate,*] proposed as a Member of the Society for the Encouragement of Arts, Manufactures, and Commerce, by

C. D.
E. F.
G. H.

[*Date.*]

Peers of the realm, or lords of parliament, are, on their being proposed, immediately balloted for; the names of other persons proposed to become members are read by the Secretary to the Society, and are then inserted in lists which are hung up in the Society's room: they are balloted for at the second following ordinary meeting. In both cases, if two-thirds of the members then voting ballot in their favour, they are deemed perpetual members on payment of not less than twenty guineas in one sum, or subscribing members on payment of any sum not less than two guineas annually.

Ladies are eligible to be members of the Society, and are entitled to vote personally, or by proxy, if such proxy be presented by a member.

Persons residing more than ten miles from the Society's house may become subscribing members on payment of one guinea annually.

Members are entitled to vote and assist in all the general business of the Society. They have also the privilege of introducing two persons, as visitors, at the Wednesday evening meetings of the Society, when some scientific subject is brought forward for illustration and discussion; and, by addressing a note to the housekeeper, of introducing their friends on any week-day, except Wednesday, between the hours of ten and two, to examine the various models, machines, and productions, in different branches of arts, manufactures, and commerce, for which rewards have been bestowed: also to inspect the magnificent series of moral and historical paintings, executed by Barry, which, with some valuable busts, statues, portraits, &c. decorate the public rooms of the Society.

Members have the use of the Society's library, which is valuable, and annually increasing by the purchase and donation of scientific and useful books, and of engravings. Contributions from members and others, in augmentation of the library, and of the collection of maps and prints, will be

thankfully received, and acknowledged in the annual volume of the Society's Transactions, to a copy of which every member is entitled.

The Society desire it to be clearly understood, that they cannot be responsible for any opinion or representation of facts contained in their volumes.

The public are cautioned against purchasing articles sold under the pretended sanction of the Society's name.

The Society have lately published the 53d volume of their Transactions, which may be had by members on application to the housekeeper. Complete sets of their Transactions, or any single volume, may be purchased at the Society's house; where may be had also,

An *Analytical Index of the first twenty-five volumes* of the Transactions, to the termination of the session, June 1807, price 1s.

Ditto, continued to the end of the 40th volume, price 1s.

Ditto, to the end of the 50th volume, price 1s.

A catalogue of books in the Society's library, price 1s.

A description of Barry's paintings in the great room of the Society.

The Society have also republished Barry's own etchings from his pictures in the Society's great room, consisting of fourteen plates, accompanied by a letter-press description thereof, together with his Lear, and an etching from his picture of Pandora by Schiavonetti; which may be had, half-bound, for two guineas to members, and three guineas to the public.

To persons inclined to leave a sum of money to this Society by will, the following form is offered for that purpose:—

I give and bequeath to A. B. and C. D. the sum of , upon condition and to the intent that they, or one of them, do pay the same to the collector, for the time being, of a Society in London, who now call themselves *the Society for the Encouragement of Arts, Manufactures, and Commerce*; which said sum of I will and desire may be paid out of my personal estate, and applied towards carrying on the laudable designs of the Society.

All communications are to be made by letter, addressed to FRANCIS WHISHAW, Esq. the Secretary, at the Society of Arts, &c. Adelphi, London; and where articles are sent by sea for the Society, the bills of lading are to be addressed to PETTY VAUGHAN, Esq. 70 Fenchurch Street, London, who has undertaken to receive them for the Society.

GENERAL NOTICE TO CANDIDATES.

THE great object of the Society, in rewarding individuals, is to draw forth and give currency to those inventions and improvements which are likely to benefit the public at large. Candidates are therefore requested to observe, that if the means by which the respective objects are effected require an expense or trouble too great for general purposes, the Society will not consider themselves bound to give the offered reward; but though they expressly reserve the power, in all cases, of giving such part only of any premium as the performance shall be adjudged to deserve, or of withholding the whole if there be no merit, yet the candidates may be assured the Society will always judge liberally of their several claims.

The Society by no means restrict their liberality to the subjects for which premiums are specially offered; but will take into consideration, and will reward by a bounty proportioned to its merit, any communication the subject of which is of a practical nature and calculated to promote the public good.

All communications are to be made by letter (post paid), addressed to the Secretary; and must be written on foolscap paper leaving *margins* at least *one inch* broad on *both* the *outer* and *inner* sides of the page, to contain full and particular details, according to the nature of the subject, as well as accurate descriptions of such drawings and models as form part of the communication: the models to be sent *carriage-paid*.

Where premiums or bounties are obtained in consequence of specimens produced, the Society will retain such part of those specimens as they may judge necessary, making a reasonable allowance for the same.

No member of this Society shall be a candidate for, or entitled to receive, any premium, bounty, or reward whatsoever, except the honorary medals of the Society.

No candidate, not a member, shall be present at any meeting of the Society or committees, or be admitted at the Society's rooms, after having delivered in his claims, until such claims are adjudged, unless summoned by the committee.

Any candidate for a reward being detected in any attempt to impose upon the Society, shall forfeit such reward, and be deemed incapable of obtaining any for the future.

The consideration of the claims for the premiums offered in the present list will take place during the two sessions of the Society, 1843-44 and 1844-45. The several candidates and claimants, to whom the Society shall adjudge premiums or bounties, are to attend on the first Monday in June, or such other day as the Society shall appoint, to receive the same; and before that time no premium or bounty will be delivered, except by a special vote of the Society.

PROVINCIAL SOCIETIES.

Provincial Scientific Societies and Mechanics' Institutions, in any place not less than fifteen miles from London, desirous of becoming connected with this Society, and making an application, in writing, signed by their Secretary, accompanied by a copy of their Regulations, may, on payment of two guineas annually, be furnished with the annual volume of the Transactions, and with a ticket, transferable among the members of such Society, which shall admit the bearer as a visitor to the Museum and Library, and to all meetings of this Society and of the ordinary committees.

Any Society having been admitted as above, and being desirous of possessing more than one transferable ticket, may obtain them on payment of one guinea annually for each additional ticket.

CLASS OF AGRICULTURE:

INCLUDING

PLANTING, GARDENING, AND EVERY BRANCH OF RURAL ECONOMY.

For useful communications on any of these subjects, the Society will give Gold or Silver Medals, Pecuniary Rewards, or Honorary Testimonials, according to circumstances; and it is particularly requested that such communications may be sent in as early in each session as possible, in order to secure a full consideration of their merits. The objects to which the attention of the public is more particularly directed are arranged under the following heads:—

I.—IMPROVEMENT OF LAND.

For the discovery and application of superior or cheaper means of effecting any of the following objects:—

1. Gaining extensive tracts of land from the sea, and bringing the same into cultivation.

2. Bringing into cultivation land previously lying waste.

3. Draining or otherwise improving land already under cultivation.

4. Making experiments for the purpose of quickly bringing substances employed as manure into a state fit to be

used, and of ascertaining the best method of applying the substances already used as manure, or the successful introduction of any new substance for that purpose.

II.—PLANTING AND MANAGING FOREST AND FRUIT-TREES.

5. Making extensive plantations of forest-trees, particularly on land unfit for other purposes.

6. Making experiments, or communicating information, concerning the kinds of trees best adapted for cultivation in different soils and situations—or on the best modes of making and managing plantations, or live or dead fences—or of planting, pruning, and managing fruit-trees and orchards,—or of securing plantations from injury by hares, rabbits, sheep, or cattle.

7. Communicating information respecting the best methods of preserving the blossoms of fruit-trees from injury by frost, and of ripening tender fruits in the open air.

8. Introducing new and improved species or varieties of forest or fruit-trees, or ornamental shrubs or other plants.

The Society will be glad to receive seeds, grafts, or cuttings, for distribution.

(See Premium No. 25, *Colonies and Trade*.)

III.—CULTIVATION OF CORN AND OTHER PLANTS.

9. Making experiments, or communicating information, on the different methods of growing wheat and other grain, and on the varieties of each, with the modes of culture best adapted to various soils and situations.

10. Communicating similar experiments or information on the various native and foreign grasses, clover, lucern, &c., and on the soils best adapted to them respectively.

11. Communicating information concerning the cause of, or remedy for, the rotting of the roots of clover in the ground.

12. Communicating new or improved methods of harvesting corn, or making hay in wet seasons.

13. Discovering new or improved means of preserving agricultural produce, particularly roots and plants, during the winter, in a fit state for feeding cattle and sheep in the spring.

14. The discovery of new and effectual means of importing from distant

countries plants, roots, and seeds, in a living state.

15. Making experiments, or communicating information respecting the possibility of making plants flourish in climates and situations very different from those in which they are found native.

16. Introducing new and useful vegetables, or producing new and improved varieties of those already in cultivation; or introducing any improvement in managing fruit or kitchen-gardens.

17. Discovering effectual methods of destroying noxious insects and preventing blights, or in any way improving the health of trees or plants.

IV.—CATTLE, SHEEP, PIGS, AND OTHER DOMESTIC ANIMALS.

18. Communicating new and useful information concerning the breeding, rearing, and feeding of cattle, or other domestic animals, with a view to improve their health or vigour, or to increase either the quantity or quality of the meat, milk, wool, or other produce.

19. For importing and rearing in this country any improved breed of cattle, sheep, or other domestic animals.

20. For importing and rearing in this country any species of poultry which may be advantageously naturalised.

21. Importing, breeding, and rearing, in this country, the Cashmere-shawl goat.

22. Ascertaining the value of salt in feeding cattle, or in improving the quality of hay injured by the weather.

V.—AGRICULTURAL BUILDINGS AND MACHINES.

23. Communicating any improvement in the construction, drainage, or ventilation of barns, stables, and other farm-buildings, or in the arrangement of a farm-yard, or in the construction and hanging of gates.

24. For the best method of constructing economical and durable fencing for agricultural purposes, particularly as relates to the preservation of posts and other timbers inserted in the ground.

25. For any improvement in the method of building, heating, ventilating, and managing, hot-houses, conservatories, or other constructions for similar purposes.

26. Inventing or improving machines for performing, in a superior manner, or at a cheaper rate, any agricultural operations,

CLASS OF FINE ARTS.

The Society having determined to confine their rewards in future to *original* productions in the Fine Arts, they offer gold and silver medals for *original* works of art in the following branches, viz.:—

- Historical subjects.
- Portraits.
- Landscapes.
- Fruit, flowers, and still-life.
- Enamels and miniatures.
- Designs in architecture and of architectural ornaments or details, and drawings of existing buildings, including geometrical elevations.
- Academical figures and studies from the round.
- Drawings of machinery and works in civil engineering.
- Engravings or etchings either on steel or copper.
- Wood engraving.
- Medal dies, gems, and cameos.
- Drawings in lithography, lithotint, and zincography.
- Models in wax or clay.
- Carvings in wood, ivory, marble, or other appropriate substances.
- Anatomical, botanical, and other scientific modellings or drawings.
- Improvements in the daguerreotype and solar-type processes.

All works in Architecture must be sent to the Society's house on or before the third Tuesday in January in each year; and all other works in the class of Fine Arts on or before the first Tuesday in March.

The performances competing for the offered premiums must be delivered in without any external intimation of their respective authors; but the candidates are required to affix on the front of their performances some motto or device, and the same motto or device is to be inscribed on the *outside* of a paper sealed up, containing *within* the name and residence of the candidate, and *on the outside* the sex and age; and whether the candidate has previously received from the Society any, and what reward, the year in which such reward was given, and to which of the four following classes the candidate belongs:—

1. Gentlemen Amateurs.
2. Ladies Amateurs.
3. Gentlemen, artists by profession, or such as intend to become so.
4. Ladies, artists by profession, or such as intend to become so.

The various performances will be divided according to the above classes, and will be subdivided in reference to their subjects and the materials employed; and finally with reference to the ages of the candidates, as follows:—

Candidates under the age of eighteen.

— above the age of eighteen and under twenty-five.

Not more than two rewards will, under any circumstances, be given in the same subdivision. No candidate shall send more than one performance in each branch of art; but in case a candidate send, in the same year, performances in different branches, such circumstance must be stated on the *outside* of each sealed paper, together with the mark affixed to each performance.

No candidate will be allowed to retouch or varnish a performance after it has been received by the Society.

No candidate, having received a reward, shall afterwards receive an equal one in the same subdivision, or any reward in an inferior subdivision in the same department of art.

All works to which rewards are adjudged shall remain with the Society for exhibition until after the second Wednesday in June.

The Society will require a specimen of the abilities of each successful candidate, to be executed at their house in the Adelphi.

Special Premiums, to which the Limitations as to Age do not apply.

Stock Premium.

In the year 1781, a bequest of 100*l.* consols was made by the late John Stock, Esq. of Hampstead, the interest

whereof to be applied by the Society in the encouragement of the Fine Arts.

1. In furtherance of this object, the Society contribute such an additional sum from their own funds, as enables

them to offer their Gold Medallion, which, for the year 1844, will be conferred on the candidate who shall produce the best original design for a sepulchral monument adapted for erection in the cemetery of Kensal Green, to the memory of the late Royal President of the Society, to be sent in on or before the third Tuesday in January 1844. The cost of the building (exclusive of such decorative sculpture, or other artistic embellishment, as the author may consider appropriate) not to exceed 5000*l.*

The drawings to consist of one or more plans, a geometrical elevation and a section drawn to a scale of $\frac{1}{4}$ of an inch to the foot; also a perspective view.

2. For 1845. The Gold Medallion is offered to the candidate who shall produce the best original design for a town and county hall, containing the requisite accommodations for holding the assizes, a large room for public meetings, and offices for the magistrate's clerk, &c. to be sent in on or before the third Tuesday in January 1845. The expenses of the building not to exceed 40,000*l.*

The drawings to consist of two plans, one or more geometrical elevations, and two sections drawn to a scale of $\frac{1}{4}$ inch to the foot; also a perspective view.

Acton Premium.

In the year 1837, a gift of 500*l.* was made to the Society by Mrs. Hannah Acton, of Euston Square, for the purpose of enabling the Society to offer an annual reward for the promotion of practical carpentry, applicable to civil, naval, and military architecture.

3. In compliance with the terms of the above donation, the Society offer a Gold Medallion for the best design for a roof of 100 feet span and 150 feet in

length, with the walling necessary for its support.

Each design to consist of a plan, and two sections, neatly outlined in Indian ink, and tinted, with a scale annexed; also a model of one bay, or larger portion, as the candidate shall see fit, should accompany the design.

The model and drawings to be sent in on or before the third Tuesday in January 1844; and, if rewarded, to become the property of the Society.

4. For 1845. The Gold Medallion is offered for the best design for the hull timbers of a steam-vessel of 1000 tons burden.

Such design to consist either of a model or of a plan, section, and other drawings sufficient to explain the same.

The model or drawings to be sent in on or before the third Tuesday in January 1845; and, if rewarded, to become the property of the Society.

Ticket of Admission.

5. For the best design for a ticket of admission to the Society's great room and model room;—*the Gold Isis Medal.*

The design, if rewarded, to become the property of the Society.

Application of Fine Arts to Manufactures.

6. For the best original design in outline, from the vegetable kingdom, adapted to broad silk, linen, or worsted loom-weaving, with a copy thereof by the same person put on ruled paper or *mise en carte*;—*the Silver Medal and Five Pounds.*

7. For the best original design as a subject for modelling or carving, adapted to furniture or internal decoration, by an operative mechanic in either of those branches of art;—*the Silver Medal and Five Pounds.*

CLASS OF CHEMISTRY AND MINERALOGY.

Claims for premiums in this department with full descriptions, certificates, and samples, where necessary, are to be sent in on or before the first Tuesday in February of the respective years for which they are offered.

Generation of Steam.

1. For the best method of generating steam, in such a manner that its quantity or force shall be materially increased, without increase of danger or expense;—*the Gold Medal.*

Prevention of Smoke.

2. For a method superior to any in use, and verified by practice, of preventing the emission of dense smoke from the chimneys of furnaces and fire-places;—*the Gold Medal.*

Preventing Noxious Vapours in Manufactories.

3. For a method, superior to any in use, and verified by actual trial, of preventing the ill effects arising from noxious fumes disengaged in smelting ores, or in other chemical or manufacturing processes ;—*the Gold Medal.*

Bar Iron.

4. For any material improvement in the manufacture of bar iron ;—*the Gold Medal.*

Copper, Zinc, and Brass.

5. For any material improvement in the manufacture of either copper, zinc, or brass ;—*the Gold Medal.*

Metallic Alloys.

6. For the best set of experiments on any metallic alloy that can be usefully applied to the arts ;—*the Gold Isis Medal.*

Samples of the alloy and of the metals of which it is made to be produced to the Society. The properties of the alloy particularly requiring notice are the fusibility, the liability to tarnish when exposed to damp air, or to be acted on by ordinary fluids, the tenacity, the cohesive force, the compactness or porosity, the colour and the degree of polish of which it is susceptible.

7. For the best set of experiments on any metallic alloy suitable for speculum metal for telescopes ;—*the Gold Medal.*

The conditions the same as for the preceding article.

Flint Glass for Optical Purposes.

8. For flint glass free from veins, as dense and transparent as the best now in use, and quite fit for the purpose of opticians ;—*the Gold Medal.*

9. For the best account of the causes of the defects of flint glass, with the means which have been employed to remedy the same, accompanied by suggestions for the improvement of the manufacture ;—*the Silver Medal.*

Crown Glass.

10. For any material improvement in the manufacture of crown glass ;—*the Gold Medal.*

Copperplate Printers' Ink.

11. For a method of manufacturing a black from which printers' ink may be

made equal to any hitherto known, and fit for the finest kind of copperplate printing ;—*the Gold Isis Medal.*

Black Colour.

12. For the best set of experiments on the various substances from which durable black can be made suitable for painting in oil or water-colours, or for printers' ink ;—*the Gold Isis Medal.*

Electricity.

13. For any important useful application of electricity to the arts ;—*the Gold Medal.*

The Society have in view the probable economical application of electricity, galvanism, electro-magnetism, or magnetoelectricity, to chemical manufactures, to the production of motive power and of light.

Dry Rot and Mildew.

14. For a method or methods of preventing dry rot or mildew in timber, canvass, or other vegetable substances, superior to those already in practice ;—*the Gold Medal.*

Preventing the Destructive Effects from Moths.

15. For a method superior to any hitherto known of preventing the destructive effects occasioned by moths and other insects in furs, woollens, specimens of natural history, books, and other articles ;—*the Gold Medal.*

Lithographic Stone.

16. For the discovery in the United Kingdom, or in any British colony, of a bed of stone equal to the best German stone, for the purposes of lithography ;—*the Gold Isis Medal.*

Lighting Buildings, &c.

17. For a method superior to any hitherto known, and not more expensive, of lighting public or private buildings, streets, or roads ;—*the Gold Medal.*

A full account of the process employed to be communicated to the Society.

N.B. For useful communications on any of the applications of Chemistry to the Arts and Manufactures, especially in dyeing and calico-printing, and in the preparation of acids, alkalis, and compound salts, the Society will give Gold or Silver Medals, or Pecuniary Rewards, according to circumstances.

CLASS OF COLONIES AND TRADE.

Claims for the following premiums are to be sent in on or before the second Tuesday in March.

It is absolutely necessary that all statements made by candidates residing in the colonies should be authenticated by the certificates of the governor or secretary of the colony, or by two justices of the peace, or other competent local authorities.

Growth of Flax in British India.

1. To the person who shall raise the greatest quantity of flax, of good quality, in any of the British possessions in the East Indies, being the produce of not less than five English acres;—*the Gold Medal.*

Certificates of the number of acres cultivated, the mode of culture, the nature of the soil and weight of the produce, together with fourteen pounds of the flax, to be forwarded to the Society.

2. To the person who shall import into Great Britain or Ireland the greatest quantity of flax, of good quality, not less than one ton, grown in any of the British possessions in the East Indies;—*the Gold Isis Medal.*

Certificates of the importation, together with fourteen pounds of the flax, to be delivered to the Society.

Substitute for Hemp.

3. To the person who shall import at least two tons of any vegetable fibre, which shall be equally cheap, strong, and durable, and applicable to all the purposes for which hemp is now used;—*the Gold Medal.*

Cashmere Wool.

4. To the person who shall import the greatest quantity of real Cashmere wool, or other wool of equal quality and value, not less than 1 cwt., and in a state fit for spinning;—*the Gold Medal.*

Samples of the wool, not less than five pounds weight, to be produced to the Society.

Silk.

5. To the person who shall produce in any British colony, and shall import the greatest quantity of silk proper for manufactures, not less than one hundred pounds weight;—*the Gold Medal.*

Specimens of the silk, not less than one pound, with an account of the method by which the silk-worms were managed, the kind of trees or plants whence they were

furnished with food, and particulars respecting the culture of the trees or plants for that purpose, to be produced to the Society.

6. To the person who shall import the finest quality of silk produced in the East Indies, equal to the best Italian or China silk;—*the Gold Medal.*

One pound of the silk to be sent to the Society as a sample, with certificates that at least 100 lbs. of equal quality have been imported.

China Paper for Copperplate Printing.

7. To the person who shall communicate to the Society the best account of the process employed in China for the manufacture of paper used in England for copperplate printing, and known by the name of India paper, together with an account of the materials from which such paper is made;—*the Gold Medal.*

Specimens of the paper, with samples of the materials in their raw or unmanufactured state, to be produced to the Society.

China Porcelain.

8. To the person who shall communicate to the Society the best account of the processes employed in China in manufacturing porcelain, with specimens of the earths and plans of the furnaces;—*the Gold Medal.*

Diminution of Human Labour in the Cultivation of Sugar, &c.

9. To the person who shall produce to the Society a satisfactory account, founded on experience, of the most advantageous mode of diminishing the labour of persons employed in the cultivation of sugar, cotton, and coffee, in the West Indian colonies, by the substitution of machinery or of cattle;—*the Gold Medal.*

Persons wishing for information on this subject are referred to Mr. Booker's account of the management of a cotton plantation at Demerara, inserted in the 47th volume of the Society's Transactions. See also page 39, vol. lxxii. of the Society's Transactions.

10. To the person who shall introduce into any British colony the cultivation or production of any article of commerce which shall be equally profitable, but require less human labour, than the articles previously cultivated or produced;—*the Gold Medal.*

A full account of the articles produced, with the mode of culture and other processes, to be forwarded to the Society.

Olive Oil.

11. To the person who shall manufacture and import the finest specimen of oil, not less than ten gallons, the produce of olives grown in any British colony in Africa or Australia;—*the Gold Medal.*

Specimens of the oil, not less than two quarts, together with satisfactory certificates, to be produced to the Society.

Wine from Australia or New Zealand.

12. To the person who shall import the finest wine, not less than one pipe, of good marketable quality, made from the produce of vineyards in Australia;—*the Gold Medal.*

Samples of the wine, and certificates that the wine was made in the colony, to be produced to the Society, together with an account of the vineyards, and of the process of the manufacture.

Dried Fruits.

13. To the person who shall prepare in any British colony or possession, and import into Great Britain, the greatest quantity, not less than 100 lbs. of dried fruits of good quality, similar to those now imported from the Mediterranean;—*the Gold Ceres Medal.*

Satisfactory certificates that the fruits were grown and prepared in the colony, with samples, to be presented to the Society.

Dried Plantains or Bananas.

14. To any person who shall dry and import into Great Britain, from any British colony or possession, the best sample of plantains, or bananas, not less than 2 cwt.;—*the Gold Ceres Medal.*

For the next in quality;—*the large Silver Medal.*

It is required that the candidates send to the Society a sample, not less than 10 lbs., with a certificate that at least 2 cwt. have been imported, of quality equal to the sample; also a written communication, stating the nature of the soil in which the plants

have grown, the average weight of the bunches, the proportion of dried fruit from 100 lbs. of the fresh ripe fruit: together with a full detail of the whole method of preparation.

The following is the method (according to information received from Captain Colquoun, R. Art.) adopted in the hot country (*tierra caliente*) of Jalisco and Mechoacan.

The bunch of fruit is allowed to remain on the plant till it is perfectly ripe, and its native sweetness fully developed; it is then cut off, and the plantains, being removed from the stalks, are spread out in the sunshine, on netting, or frames of bamboo. When the fruit begins to shrivel, the outer skin is peeled off without trouble, and the drying is continued till the fruit is of the consistence of a fig, and becomes covered over with a white, mealy, sugary efflorescence. In this state it forms a luscious sweetmeat, the flavour of which resembles that both of the fig and of the date. For convenience of transport, it is pressed into masses of about 75 lbs. each, and is wrapped up in dried plantain-leaves.

Nutmegs.

15. To the person who shall grow the finest sample of nutmegs, of good and merchantable quality, not less than 20 pounds weight, in any part of Her Majesty's dominions in the West Indies, or in any British plantation on the coast of Africa, or of the several islands adjacent thereto, or in the island of Singapore, equal to those imported from the islands of the East Indies;—*the Gold Medal.*

Satisfactory certificates of the place of growth, with an account of the number of trees, their age, nearly the quantity of fruit on each tree, and the manner of culture, together with samples of the nutmegs and of the mace, to be produced to the Society.

For Mr. Lockhart's paper on the cultivation of the nutmeg in the island of Trinidad, see the 48th volume of the Society's Transactions.

Cinnamon.

16. A premium, similar to the preceding, is offered for the growth of cinnamon.

Black Pepper.

17. To the person who shall raise, in any of the British West Indian colonies, and shall import the largest quantity, not less than 4 cwt., of good and marketable black pepper;—*the Gold Medal.*

Conditions the same as for No. 15.

Cultivation of the Tea Plant.

18. To the person who shall grow

and prepare in the East Indies, or in any British colony, the best specimen of tea, of good marketable quality;—*the Gold Medal.*

Samples, amounting to at least 2 lbs., with certificates that not less than 1 cwt. of equal quality has been prepared and imported into Great Britain, to be produced to the Society, together with full information as to the mode of growth and preparation.

China Tea.

19. To the person who shall communicate to the Society, from information obtained in China, the best and most authentic account of the culture of the plant or plants, the leaves of which furnish the different kinds of tea; together with the methods of gathering, drying, and otherwise preparing the leaves;—*the Gold Medal.*

Cocoa.

20. To the person who shall produce, in any of the British possessions in the East Indies, the greatest quantity, not less than 1 cwt., of cocoa, of good marketable quality;—*the Gold Medal.*

Certificates of the number of trees, and of the average produce of each tree, with a sample of not less than 10 lbs., to be forwarded to the Society.

Galium Tinctorium.

21. To the person who shall import, in good and sound condition, not less than 50 lbs. of the dried roots of galium tinctorium, from which, in Canada, a bright and durable red pigment has been prepared, and of which a report is given in the 46th and 48th volumes of the Society's Transactions;—*the Gold Ceres Medal.*

Samples, not less than 10 lbs., to be produced to the Society, together with certificates that the entire quantity has been imported.

Madder.

22. To the person who shall cultivate in Canada, or any other British colony, and import into this country, not less than half a ton of good marketable quality;—*the Gold Ceres Medal.*

Samples, of not less than 10 lbs. weight, to be produced to the Society, together with

the certificates that the entire quantity has been imported, and of equal quality with the sample produced.

Cinchona.

23. To the person who shall communicate to the Society the best account of one or more of the species of cinchona, the bark of which is used in medicine, accompanied by specimens of the tree in leaf, flower, and seed, and not less than 10 lbs. of the bark;—*the Gold Medal.*

Rhubarb.

24. To the person who shall produce, in any British colony or possession, the greatest quantity of rhubarb, not less than 100 lbs., equal to the average quality of Turkey or China rhubarb now in the market;—*the Gold Medal.*

Certificates of the extent of land and number of plants, with some account of the species or variety cultivated, the average produce of each plant, and samples of the rhubarb, to be forwarded to the Society.

Importation of certain Diæcious Plants.

There are certain valuable diæcious plants, of which only one sex exists in this country, and the object of the following premium is to obtain the deficient sex of the several species mentioned, in order to the production of a succession of such plants from seed.

25. To the person who shall import into Great Britain any of the following plants;—*the Gold Medal.*

<i>Populus fastigiata</i> (Lombardy poplar)	Female.
<i>Salix Babylonica</i> (weeping willow)	Male.
<i>Salisburia Adiantifolia</i>	Male.
<i>Pistacia Terebinthus</i>	Male.
<i>Machura Aurantiaca</i>	Male.
<i>Broussonetia papryrifera</i> (paper mulberry)	Male.
<i>Aucuba japonica</i> (gold plant)	Male.
<i>Vallisneria spiralis</i>	Male.

Certificates that the plant or plants have been at least two months in this country, and that they are in a thriving, healthy state, to be forwarded to the Society.

CLASS OF MANUFACTURES.

For useful communications on any of the following subjects the Society will give Gold or Silver Medals, Pecuniary Rewards, or Honorary Testimonials, according to circumstances; and it is particularly requested that such communications may be sent in as early in each Session as possible, in order to secure a full consideration of their merits.
The objects to which the public attention is particularly directed are arranged under the following heads: —

Raw Materials.

1. For the profitable conversion of any hitherto unused raw material found in Great Britain or Ireland, or which may be advantageously imported.

Machinery.

2. For improving the construction or mode of operation of any of the machinery or implements used in the spinning, weaving, or dressing of silk, wool, cotton, flax, or other fibrous material, or in the manufacture of paper.

Application of Chemistry to Manufactures.

3. For improving the methods at present in use in bleaching, dyeing, calico-printing, tanning, leather-dressing, or any other manufacture depending on chemical principles.

Glass and Potteries.

4. For any improvements in the manufacture of glass, porcelain, or earthenware.

Metals.

5. For any improvement in the manufacture of hardware, or of ornamental articles made entirely or partly of metal.

New Manufactures.

6. For the invention or introduction into this country of any new manufacture.

Children and others in Manufactories.

7. For inventing machines or devising other scientific means, by which the condition of persons, more especially of children, may be essentially ameliorated.

CLASS OF MECHANICS,

INCLUDING

HYDRAULIC, PNEUMATIC, OPTICAL, MATHEMATICAL, ASTRONOMICAL, AND SURGICAL APPARATUS, AND THE APPLICATION OF ELECTRICITY, GALVANISM, AND MAGNETISM, TO MECHANICS.

For the conditions of the premiums offered in this class, see those prefixed to the Class of Manufactures.

The attention of candidates is directed,—

1. To improvements in those important objects on which the interests of Great Britain essentially depend, namely, shipping, steam-engines, steam-boats, and carriages, roads, bridges, tunnels, canals, docks, and harbours, the construction of railroads, and modes of propelling railroad carriages.

2. To improvements in the machinery used in manufactures.

3. To improvements in the tools used in the various handicraft trades.

4. To the diminution of labour required to perform mechanical operations,

either by improving the apparatus employed, or the mode of using it.

5. To the improvement of optical, mathematical, and astronomical, and especially of nautical instruments, in respect to accuracy or facility of use, and also to improvements in surgical instruments and apparatus.

6. To the diminution of danger attending machines and mechanical operations, namely, steam-boilers, gunpowder and other mills, public conveyances, and the operations of boring, blasting, and working mines and quarries.

R E W A R D S

BESTOWED BY THE SOCIETY DURING THE SESSION 1840-1841.

IN MECHANICS AND OTHER PRACTICAL ARTS.

1. To Mr. Andrew Ross, 33 Regent Street, for his spherometer, *the silver medal.*
2. To Mr. W. Harrison, Newhaven, for his life apparatus for shipwreck, *the silver medal.*
3. To M. Henri De Jay De Beaufort, Peigneaux, Dordogne, France, for his self-acting vice for carpenters, *the silver Isis medal.*
4. To Mr. David Thomas, 18 Goswell Road, for his apparatus for preventing the guttering of candles, *the silver Isis medal.*
5. To Mr. Thos. Weeks, 2 Bull's Fields, Woolwich, for his machine for tinning sheet copper, *the silver medal, and ten guineas.*
6. To Mr. William Hill, 12 Tottenham Court, New Road, for a valve for the large pipes of organs, *the silver medal.*
7. To Mr. Hugh Powell, 24 Clarendon Street, Somers Town, for his mode of mounting the body of a microscope, *the silver medal.*
8. To Benjamin Barrow, Esq. 59 St. Anne's Street, Liverpool, for a splint for fractured limbs, *the silver medal.*
9. To Mr. Robert Murray, 122 Regent Street, for his process of taking voltaic impressions from nonconducting substances by means of plumbago, *the silver medal, and ten guineas.*
10. To Lewis Thompson, Esq. Royal Polytechnic Institution, for his method of assaying the ores of manganese, *the gold Isis medal.*
11. To Mr. Edward Bentley, 41 Moorgate Street, for his method of preserving vegetable juices, *the silver medal.*
12. To George Simpson, Esq. 6 Bedford Street, Bedford Square, for his anatomical models constructed in papier mâché, *the gold Isis medal.*
13. To Messrs. D. and H. Potts, 5 Selby Street West, Waterloo Town, Bethnal Green, and 1 Samuel Street, Booth Street, Bethnal Green, for their loom for weaving wicker chair-bottoms, *the silver Isis medal, and six guineas.*
14. To Mr. William M'Grath, 10 Mape Street, Waterloo Town, Bethnal Green, for his improved roll for weaving velvet, *five pounds.*
15. To Mr. S. Gildersleeve, 7 Providence Street, Blue Anchor Lane, Bethnal Green, for his shuttle-boxes for weaving wide velvet, *two guineas.*
16. To Mr. Jas. Slater, 27 Robert Street, Hart's Lane, Bethnal Green, for his shuttle-boxes for weaving wide velvet, *three guineas.*

17. To Mr. Samuel Larwood, 9 James Street, Church Street, Bethnal Green, for his shuttle-boxes for weaving wide velvet, *three guineas.*

18. To Mr. William Rook, 17 Russell Court, Drury Lane, for an apparatus for throwing the shoot of wide-woven fabrics, *three guineas.*

THE THANKS OF THE SOCIETY HAVE BEEN VOTED TO

C. T. Coathupe, Esq. Wraxhall, near Bristol, for his door-fastener.

Captain J. Campbell, Assistant Surveyor-General of the Madras Army, for his letter on Palmyra-tree sugar, and on Hill Paddy.

H. E. Bridge, Esq. 13 Upper George Street, Bryanstone Square, for his system of instructing the blind in writing.

Mr. W. A. Clements, Annotto Bay, St. George's, Jamaica, for his communication on the most advantageous mode of diminishing labour on sugar plantations, by the introduction of machinery.

Mr. Lynch Cotton, 6 Pall Mall, for his paper stretcher for drawings.

W. J. T. Morton, Esq. Royal Veterinary College, Camden Town, for his galvanic test apparatus for arsenic.

IN THE FINE ARTS.

Amateurs.

19. To Mr. Geo. C. Handford, 16 Cheyne Walk, Chelsea, for an original drawing of the interior of Old Chelsea Church, *the silver medal.*

20. To Miss Fanny Wycliffe Goodwin, Lynn, Norfolk, for a painting in oil of dogs (from nature), *the silver medal.*

21. To Miss Miriam Payne, Dorcas Buildings, Hammersmith, for a chalk drawing from a bust, *the silver Isis medal.*

22. To Miss E. G. Rickerby, 73 Sloane Street, Chelsea, for a portrait in miniature, *the silver Isis medal.*

Artists.

23. To Mr. Samuel Peyton, 12 Clapton Square, Hackney, for an original design for a triumphal bridge, *the silver medal.*

24. To Mr. John Wood, Cambridge Lodge, Hackney, for an original design for a nobleman's mansion, *the silver medal.*

25. To Mr. Edward F. Hutchings, 25 Hanover Square, for an original drawing of the interior of Beddington Church, Surrey, *the silver Isis medal.*

26. To Mr. Frederick Lock, 50 Berners Street, Oxford Street, for a portrait from nature in chalk, *the silver medal.*

27. To Mr. James Brown, 42 Hatton Garden, Holborn, for a chalk drawing from a bust, *the silver Isis medal.*
28. To Mr. Joseph Bouvier, 26 Charlotte Street, Fitzroy Square, for a chalk drawing from a bust, *the silver palette.*
29. To Mr. George Wood, 65 Upper Charlotte Street, Fitzroy Square, for a finished drawing of a figure, *the silver Isis medal.*
30. To Master John Everett Millias, 16 Caroline Street, Bedford Square, for an historical composition in sepia, *the silver palette.*
31. To Mr. George Wood, 65 Upper Charlotte Street, Fitzroy Square, for a painting in oil of fruit, *the silver Isis medal.*
32. To Mr. John J. Farthing, Lynn, Norfolk, for a painting in water-colours of dead game, *the silver Isis medal.*
33. To Mr. J. C. Read, 32 Mount Street, Grosvenor Square, for a portrait in oil, *the silver Isis medal.*
34. To Master Edme Gustave Girardot,
- 10 Hunter Street, Brunswick Square, for a portrait in oil, *the silver medal.*
35. To Master George Landseer, Cunningham Place, St. John's Wood Road, for water-colour drawings of birds and beasts from nature, *the silver Isis medal.*
36. To Mr. W. C. T. Dobson, 4 King's Terrace, Bagnigge Wells Road, for a painting in oil of the Prodigal Son, *the silver medal.*
37. To Mr. Edward Richard Whitfield, 5 Cranmer Road, North Brixton, for a line engraving of figures, *the silver medal.*
38. To Mr. Joseph C. Day, 50 Frith Street, Soho, for a plaster figure of Moses upbraiding the Israelites, *the silver medal.*
39. To Miss Mary Adeline Rivers, 3 Territt's Court, Upper Street, Islington, for a bust of a child modelled in wax from nature, *the silver medal.*
40. To Mr. Augustus Bouvier, 26 Charlotte Street, Fitzroy Square, for a drawing in chalk, *the silver medal.*

REWARDS BESTOWED BY THE SOCIETY DURING THE SESSION 1841-42.

IN MECHANICS AND OTHER PRACTICAL ARTS.

1. To Mr. Henry Goadby, 18 South Villa, Wandsworth Road, for his method of putting up anatomical preparations, *the gold medal.*
2. To Mr. William Middleton, 7 Wakefield Street, Brunswick Square, for his coach-maker's fence router, *the silver Isis medal.*
3. To Mr. W. Bowser, jun. 4 Swan Street, Minories, for his method of casting a screw, *the silver medal.*
4. To Mr. Charles Cameron, 50 Gascoigne Street, Liverpool, for his method of bleaching palm oil, *seven pounds.*
5. To Mr. John Ferry, 18 Mape Street, Bethnal Green, for his improvement in the hand-loom for weaving silk, *the silver medal and five pounds.*
6. To Dr. William Montgomerie, Singapore, for the cultivation of nutmegs in the island of Singapore, *the gold medal.*
7. To Mr. J. F. Warner, 13 Spann's Buildings, St. Pancras, for his improved ruling machine for engravers, *the silver medal.*
8. To Mr. Joseph Williams, 3 Coleman's Buildings, John's Row, St. Luke's, for his eel-skin bands and ropes, *the silver Isis medal.*
9. To Mr. V. Price, 8 St. Anne's Court, Wardour Street, Soho, for his machine for blocking bonnets, *the silver medal.*
10. To Mr. John Hick, jun. Bolton, Lancashire, for his elliptograph, *the silver Isis medal.*
11. To Capt. T. M. Bagnold, R.M., Wilderness, Saxmundham, Suffolk, for his improved mortar for shipwreck, *the silver medal.*
12. To Capt. Thomas Dickinson, R.N.
13. Grove Road, St. John's Wood, for his diving bell, &c. used in the operations at Cape Frio, in 1831, for recovering the treasure sunk in His Majesty's frigate *Thetis*, *the gold Isis medal.*
13. To Mr. Henry Potts, 5 Booth Street, Bethnal Green Road, Spitalfields, for his improved loom for weaving horsehair, *the silver Isis medal and five pounds.*

THE THANKS OF THE SOCIETY
HAVE BEEN VOTED TO

- J. Luke, Esq. 39 Broad Street Buildings, for his elevating bed for invalids.
- Mr. S. Nicholls, 19 Salter's Alley, Wapping, for his hook for a lathe-hand.
- Mr. Robert M'Ewen, High Mark, near Stanraer, Wigtonshire, for his additional communication on his apparatus for preventing explosion in steam-engine boilers.
- Mr. C. Williams, Charles Street, Westminster, for his table for teaching arithmetic.
- Messrs. Porter and Co. 149 Cheapside, for their patent anchor.
- Mr. E. Whitesides, 14 Bateman's Buildings, Soho, for his method of preserving iron from rust.
- Joseph Glynn, Esq. F.R.S. for his communication on titanium found in the blast furnaces at the Butterley iron works.
- William Acton, Esq. 5 George Street, Hanover Square, for his glass syringe.
- Mr. J. Farrant, Penzance, Cornwall, for his improved beacon buoy.

IN THE FINE ARTS.

Amateur.

14. To Miss Anna Maria Robertson, St. Peter's Square, Hammersmith, for a water-

colour drawing of fruit and flowers, *the silver medal.*

Artists.

15. To Mr. John Clayton, 2 Elizabeth Street, Eaton Square, for a design for a farm-house and outbuildings, &c. *the gold Isis medal.*

16. To Mr. Robert Matts, 23 Regent Square, for a design for a Parliament house, *the silver medal.*

17. To Mr. Robert Morrison, Myddleton Place, Stoke Newington, for a chalk drawing from a bust, *the silver palette.*

18. To Mr. G. E. Sintzenich, 6 Charlotte Street, Bloomsbury, for a sepia sketch for a picture, *the silver medal.*

19. To Mr. Frederick Gush, 86 Newman Street, for a portrait in oil, *the silver medal.*

20. To Mr. J. G. Medland, 70 St. Martin's Lane, for a portrait in oil, *the silver Isis medal.*

21. To Mr. Robert Frederick Abraham, 8 Bruton Street, Berkeley Square, for a portrait in chalk, *the silver Isis medal.*

22. To Mr. Arthur Howorth Cox, 27 Red Lion Square, for a chalk drawing of a horse's head from nature, *the silver Isis medal.*

23. To Master George Landseer, the Cottage, Cunningham Place, St. John's Wood, for an oil painting of a lion from nature, *the silver palette.*

REWARDS BESTOWED BY THE SOCIETY DURING THE SESSION 1842-43.

IN MECHANICS AND OTHER
PRACTICAL ARTS.

1. To Mr. Jabez Osborn, 2 Upper Boston Street, Dorset Square, for an improved method of hausing window-sashes, *the silver Isis medal.*

2. To Commander Beadon, R.N. Hope Corner, near Taunton, for an improved life-buoy, *the gold Isis medal.*

3. To Mr. Thos. Quarm, 32 Wood Street, Princes Road, Lambeth, for a bevelling instrument for joiners, *the silver Isis medal.*

4. To Sir John Robison, Edinburgh, for his method of making half-round files, *the silver medal.*

5. To Mr. Chas. Grafton, 1 Dover Street, Chorlton-on-Medlock, for his plan of a self-acting feeding apparatus for high-pressure boilers, *the silver medal.*

6. To Major Parlby, Allée d'Antin, Paris, for his plan of forming a floating breakwater, *the silver medal.*

7. To Mr. David Bond, 4 Fleur-de-lis Court, Wheeler Street, Spitalfields, for an improved tube for weaving wide velvet, *three pounds.*

8. To Mr. John Ferry, 18 Mape Street, Bethnal Green, for an instrument for drawing out terry wires, *the silver Isis medal, and three pounds.*

9. To Mr. Alfred Jones, 44 West Street, Devonshire Street, Mile End Old Town, for his improved machine for winding quills, *the silver Isis medal.*

10. To Mr. William Rook, 17 Russell Court, Drury Lane, for his improved loom for weaving horsehair, *the silver Isis medal, and three pounds.*

11. To Mr. Robert M'Ewen, High Mark, near Stranraer, N.B. for his machinery for hotpressing lace goods, *the gold Isis medal.*

THE THANKS OF THE SOCIETY

HAVE BEEN VOTED TO

Augustus Bosanquet, Esq. 32 Fenchurch Street, for his capsule for champagne bottles.

Dr. Wansborough, King's Road, Chelsea, for his improved shield for sore nipples.

Thomas Booker, Esq. Melin Griffith, near Cardiff, for his improvements in the manufacture of iron.

Mrs. Goode, Ryde, Isle of Wight, for her improved blind for Gothic windows.

IN THE FINE ARTS.

12. To Miss Cecilia Louisa Belville, 17 Prior Street, Greenwich, for a chalk drawing of the Townley Hercules, *the silver medal.*

13. To Mr. Robert Matts, 23 Regent Square, St. Pancras, for a design for a school-house, *the gold Isis medal.*

14. To Mr. J. B. Waring, 2 Albany Street, Regent's Park, for designs for architectural adornments, *the silver medal.*

15. To Mr. Philip E. Masey, 1 Kingston Buildings, Kingsdown, Bristol, for the west elevation of a Gothic church, *the silver Isis medal.*

16. To Master Edme Gustave Girardot, 10 Hunter Street, Brunswick Square, for a painting in oil of animals from life, *the silver medal.*

17. To Mr. John Richardson, Colebrook House, Islington, for portraits of a family in oil, *the silver medal.*

18. To Mr. George Wood, 65 Upper Charlotte Street, Fitzroy Square, for a portrait in oil, *the silver medal.*

19. To Mr. Edgar Ziegler, 38 Gerrard Street, Soho, for a chalk drawing of the Apollo, *the silver Isis medal.*

FRANCIS WHISHAW, Sec.